

## ABSTRACT

A method of controlling a remote imaging platform for image acquisition of an imaging target, the method comprises: controlling said platform to aim a camera at said target, and controlling said platform to take at least a first, a second and a third images of said target during the course of a single pass of said platform over said target, whilst keeping said camera locked onto said target for a duration required to take said images. Applications include forming a stereo pair from said first and said third image to obtain topographical data of said target, and applying said topographical data from said stereo pair to the second image, the second image being a high resolution image taken from above the target, the result being a nadir image with topographical data. Another application is to form several stereo images and combine them into an overall image containing enhanced topographical information. Another application is to combine pixels from multiple images of the target onto a single grid to provide enhanced resolution.